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| Mitosis Study Guide  **The** most important cell activity…. | Give 3 reasons why cell division is the  most important cell activity. |
| How does a prokaryotic cell make more cells? | How does a eukaryotic cell make more cells? |
| Parent cell | Daughter cell |
| Interphase | The main difference between animal  and plant cells in mitosis… |
| Name 3 causes of cancer…. | Cancer |
| What are the 3 treatments for Cancer? | What are the two types of tumors? |

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| Mitosis Study Guide   1. Cells wear out and need to be replaced 2. New cells repair damaged tissue. 3. New cells allow body to grow. | Cell Division | |
| Mitosis= cell division in which 2 new  daughter cells are formed with the exact  same number of chromosomes as the  parent cell. | Binary fission= Splitting into 2 parts | |
| Two (2) new cells formed by cell division | Original cell (before the cell divides) | |
| A cell plate grows in plant cells only. | Time before mitosis begins; cell grows  and genetic material is copied. | |
| Uncontrolled cell division | 1. Smoking 2. Sun/UV light exposure 3. Chemicals 4. Family Inheritance | |
| **Benign** (do not cause problems)  **Malignant** (invade other body tissues and  can cause severe damage) | * Surgery * Radiation * Chemotherapy | |
| Mitosis Study Guide  Cancer Statistics | | P53  This gene kills cancer cells by stopping the  cell cycle when DNA mutates. | |
| Is there a cure for cancer? | |  | |
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| Mitosis Study Guide  Gene that kills cancer cells | | * 1 in 3 people develop cancer * 1 in 4 people die from cancer * Cancer is the 2nd leading cause of death in the United States | |
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